

Human 5-HT1A promoter

-3438ATCATCAATAATATCCGTTATAAAGCTTGTCTTTCTTTAGGTTAACTTTAGAGGCCCTTGAAGAATAAGAGCTCATCTCTT
-3358TACAGGAGCTTTGGTTTGCAGCATTTACTTAAGAAATATTTGGTATCTCTGTATCTTTAAGAGTTAAACATAGAAGAATTG
-3278GCTAAGTGAAAAATGAATGAACGCAATATCATCTCTGCATATATCATTTATATATATACAGTATTTAGTTTAAAG
-3198TTAAACATAAATATCTATTTATGYCATTGSACGAYTAGGYSAACTTARTCRGTGCTGCGAATACTTTTCGATACTTCTGTCTT
-3118CCCTCCTAGTATTCATAAAGTGTGCCCTTTGAAGAACGTTTAAATTTGTAAGAAATAAAATGTTTGATATATTTATGTATATTA
-3038TTACTAAGAAAAAACTTGAATTACTTTGGATTTTGAAAAACTTTTGATAAAATCTTACATAAAATCTACATAGCATATTTGAAGCAAGAAAT
-2958AACAAATGCTATACCTCAGGAATATTAATTCAGATTTTACAGCAATTTTAACTTTCTTGATGAGAAAAATAAATTTGTCT
-2878AGTTATTAACATATTTGGATCCAAACAGATGAAGAGCAAAATCTTAACATAATTTATTTGATTTATTTGTGATTTTACATA
-2798TTTACATGTGTGTTTGGACACAAATCTTAATATGTTCTTGATATGCATATATTTGCTTCTTAAATTTTAAAGTTTCTCTT
-2718ATTTTACTTTGTTTATAGTCTCAACTATAAATTTCAAGTTTAAATTTTAGATAAATTCAGCCCTTTTAAATATTTTCCCATTA
-2638TAATTTTGTGACCTCTAACTCTATTTTAACTGTAAATATAGTTCTGTATTTGTGAAGAGACTTTAGAAGTGGAAATAGA
-2558TACCTTCACAAATCTTAAAGACTTCTTCAGAGTCTGTAAACAGCATTAACCATGTATATCTTCTCTTTCTTTTGCATGCC
-2478ATGATCATCAAAATGCATGGCTCATGTGGTGCATGCTGAATGATGTGGGACTGTGCCAGCTGAACATAAAAAAAA
-2398AAAAACAAACAAACCTTATCCAAACACACTGTCTGTATTTGTAATGCAATGGCCCAACTGGATTTCTTTTGTGATGCTTTGG
-2318TGAATTGCTCTTTTGTGTTGGGCTTGGAGAATTCAGAGCTATGAAATTCAGAGCTCAGATTTGAACACAATATTAAGATTAT
-2238TGCAATCTGTAGTGAATCTGTTCATGTTATCCAGTGTCAACTGCTTTTGGATTTGATTTCTTTTCCCTCAGGCATGCAA

FIGURE 1a BEST AVAILABLE COPY



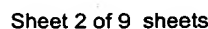


FIGURE 1b



Title of Invention: "MUTATIONS OF THE 5' REGION OF THE HUMAN 5-HT1A
GENE, ASSOCIATED PROTEINS OF THE 5' REGION ... DIAGNOSTIC TEST
FOR MAJOR DEPRESSION AND RELATED MENTAL ILLNESSES"
Inventor's Name: ALBERT et al.
Serial No. 09/430,412
Docket No. 2268UO-1
Agent: Angela Dallas Sebor
Telephone: 303/863-9700

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-558AGGGAAGTGAGGAGGAAGAGGGGAGACTGAAAGGGAAGGCAGGTGGGGAGAGGGGGACGAAAGAGGCGAGAGAGAGAGAA
-478GAGAGGAGGAGAGGGGGAGAGAGGGAAGGAATAGGGAGAGGAGGGTCAACAGAGTGACCGTGGAGGATGGGGCT

-398TCTCG

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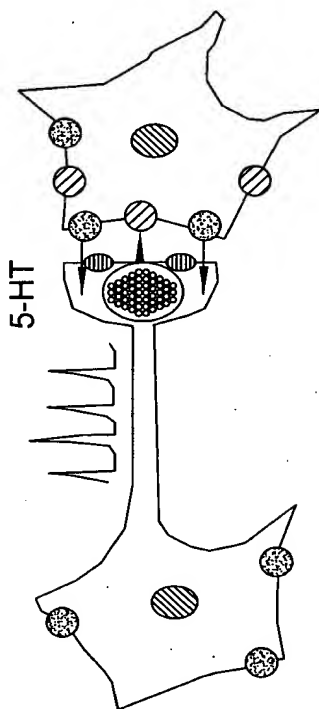
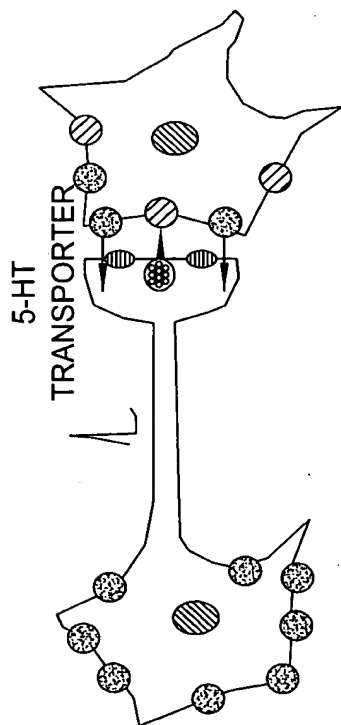
FIGURE 1c



CHRONIC ANTIDEPRESSANT TREATMENT

ACUTE ANTIDEPRESSANT TREATMENT

5-HT NEURON POSTSYNAPTIC NEURON



5-HT1A AUTORECEPTOR POSTSYNAPTIC RECEPTORS

AUTO-INHIBITION → LOW FIRING RATE →
→ LOW 5-HT RELEASE

DYSINHIBITION → NORMAL FIRING RATE →
→ HIGH 5-HT RELEASE

FIG. 2

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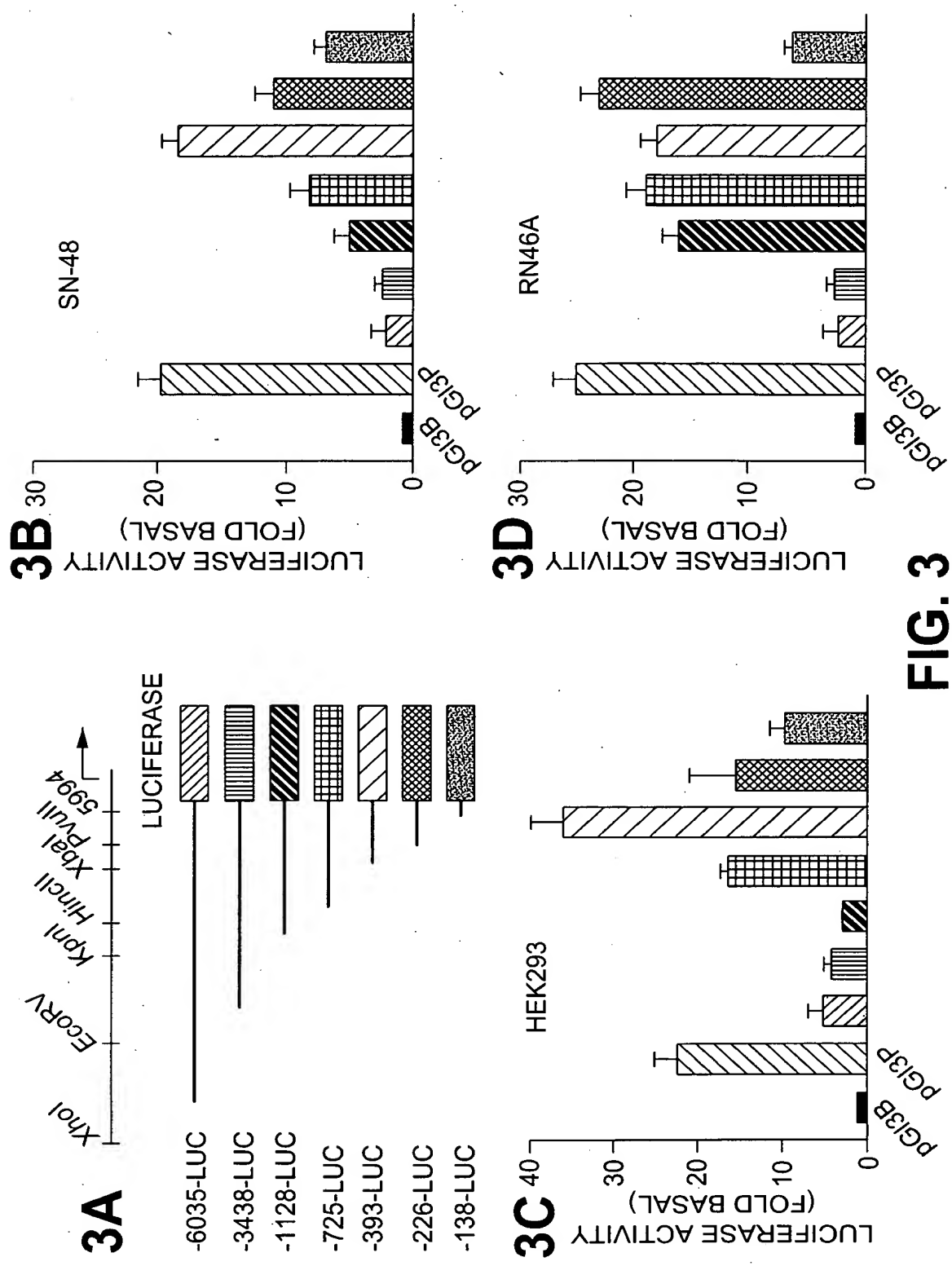


FIG. 3

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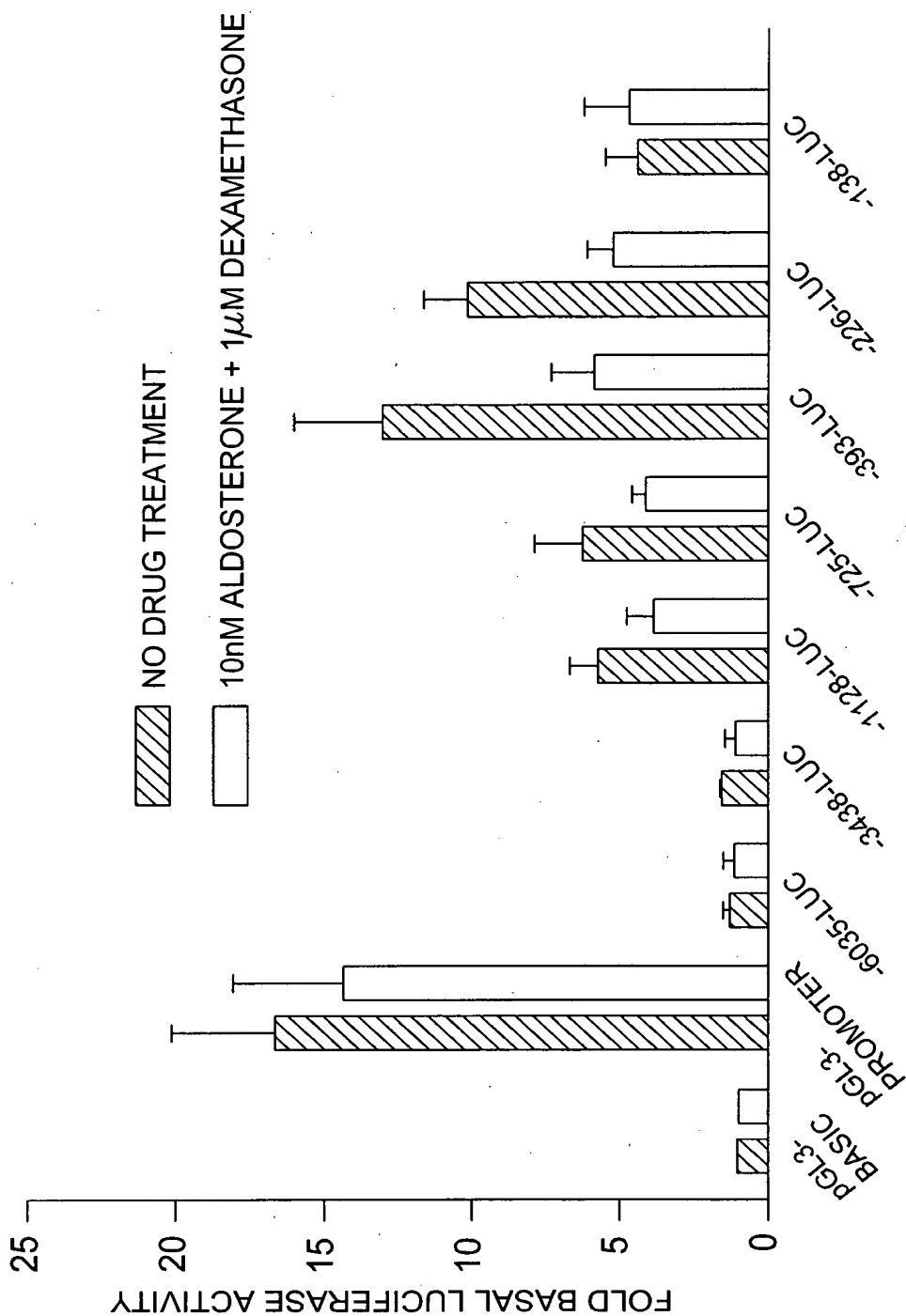


FIG. 4A

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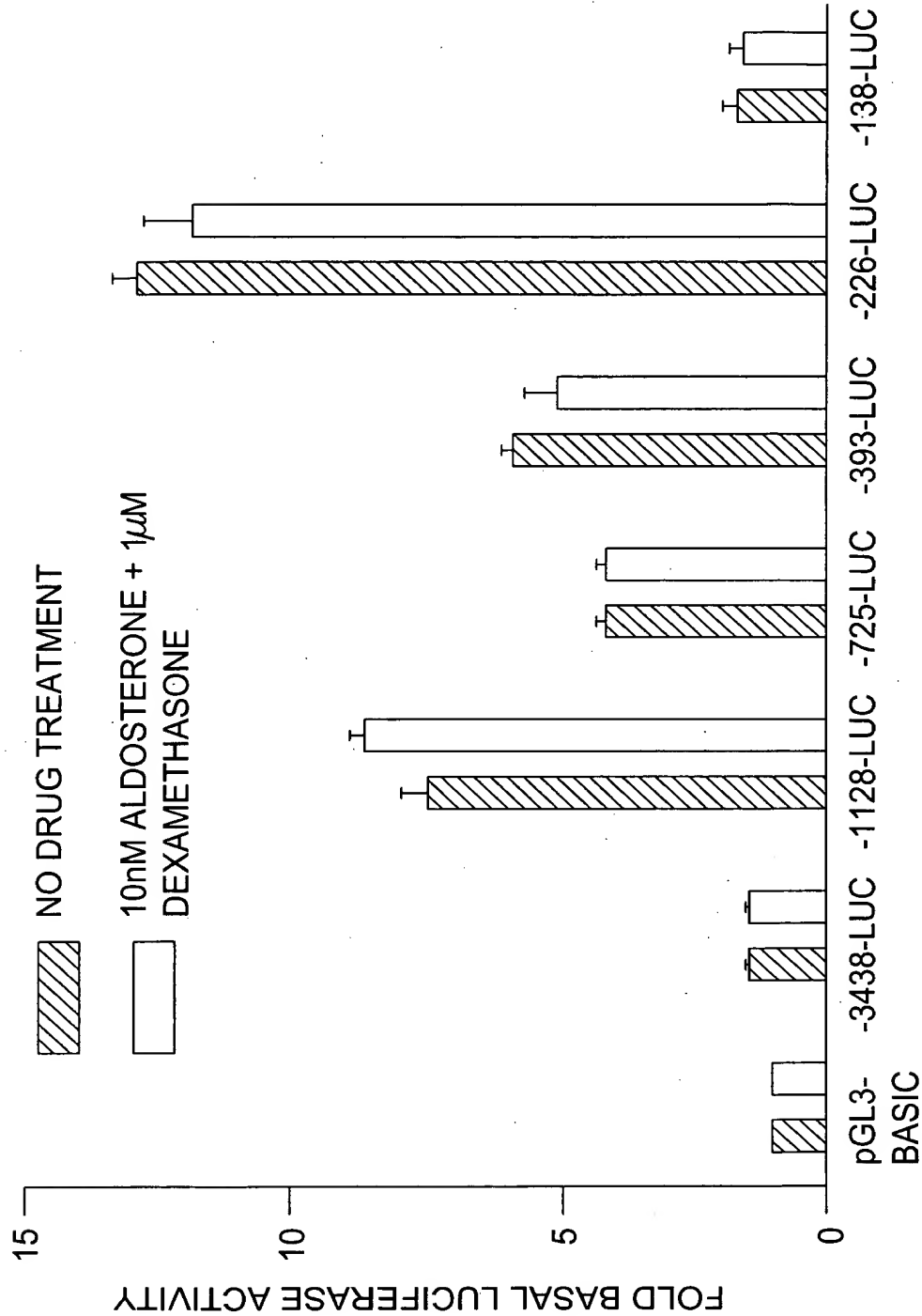


FIG. 4B

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Title of Invention: "MUTATIONS OF THE 5' REGION OF THE HUMAN 5-HT1A GENE, ASSOCIATED PROTEINS OF THE 5' REGION ... DIAGNOSTIC TEST FOR MAJOR DEPRESSION AND RELATED MENTAL ILLNESSES"
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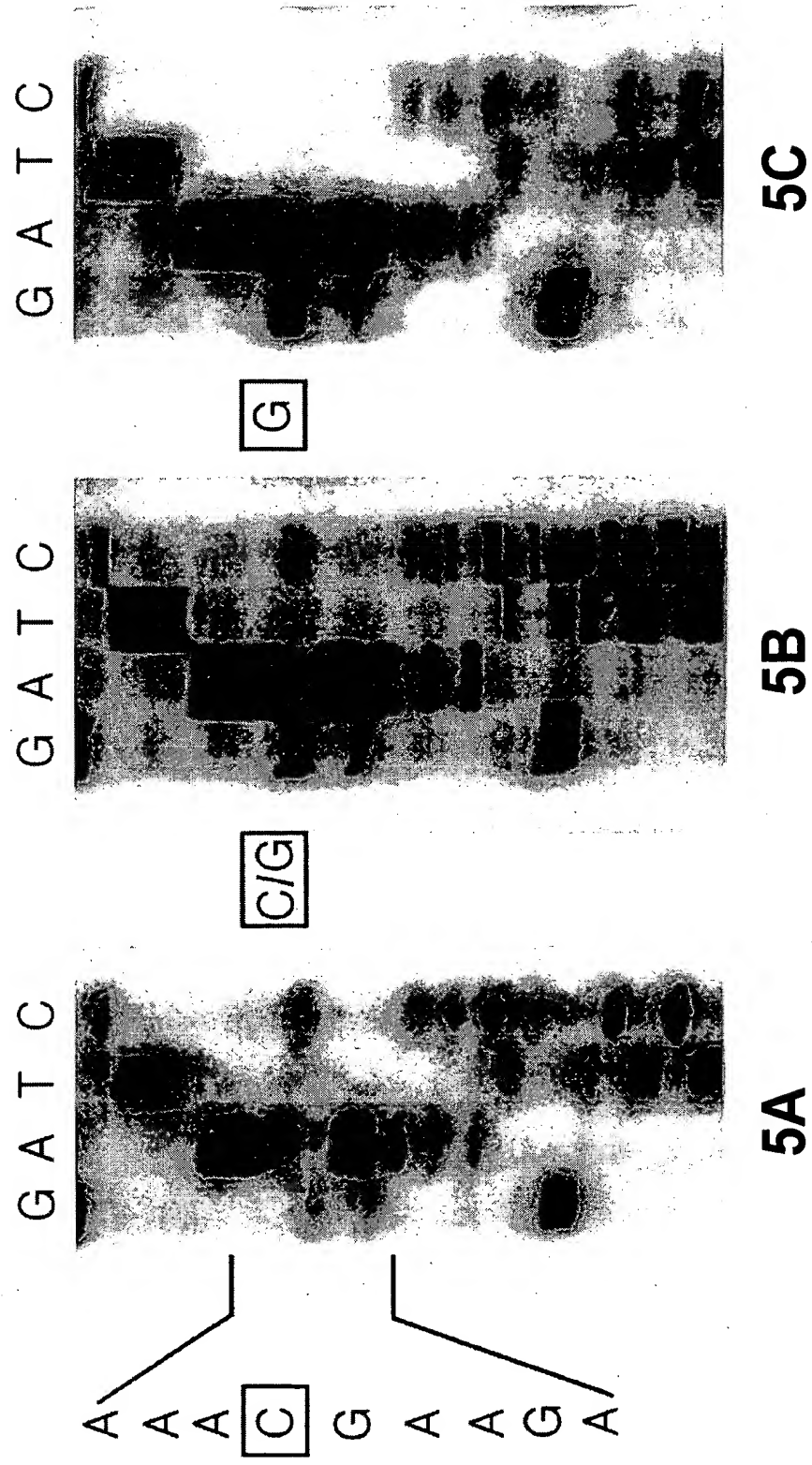
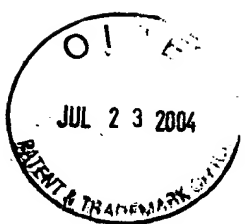


FIG. 5
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RN46A NUCLEAR EXTRACT
100X COLD SPECIFIC OLIGO
100X COLD NON-SPECIFIC OLIGO

-	+	+	+
-	-	+	-
-	-	-	+

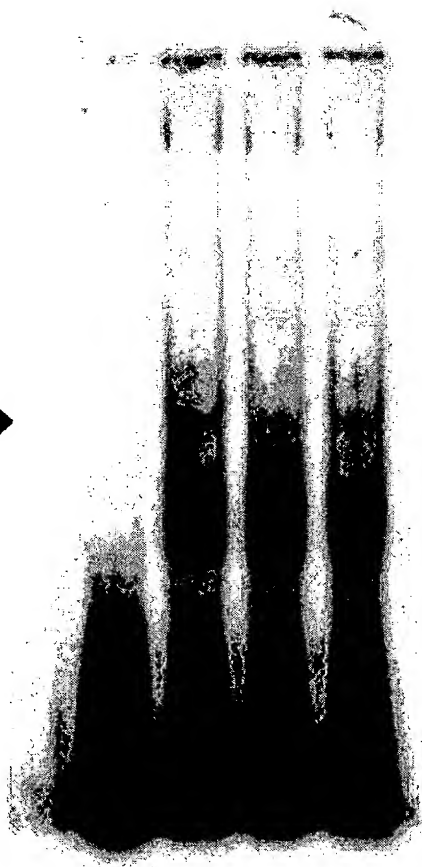


FIG. 6

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